

POES IJPS

Polar-orbiting Operational Environmental Satellite (POES)

Interface Requirements between the Command and Data Acquisition Station (CDAS), Satellite Operations Control Center (SOCC), and the Ingest and Preprocessing System (IPS) in the IJPS Era

November 2002



Prepared by:

**U.S. Department of Commerce
National Oceanic and Atmospheric Administration (NOAA)
National Environmental Satellite, Data, and Information Service (NESDIS)**

NOAA/NESDIS

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Approval Page

Document Numbers:

NOAA/NESDIS
POES Series
P222

NOAA-POES-IJPS/OSD-2002-0016R0UD0
November 8, 2002
DCN 0

Document Title Block:

Polar-orbiting Operational Environmental Satellite (POES)

**Interface Requirements between the
Command and Data Acquisition Station (CDAS),
Satellite Operations Control Center (SOCC),
and the Ingest and Preprocessing System (IPS)
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PROGRAM: POES IJPS

DOCUMENT RELEASE DATE: November 2002

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Document Change Notice

DCN NO.: 0	DATE: November 8, 2002	PROGRAM : SYSTEM: POES : IJPS	PAGE NO.: 1 of 1
DOCUMENT TITLE: <i>Interface Requirements between the Command and Data Acquisition Station (CDAS), Satellite Operations Control Center (SOCC), and the Ingest and Preprocessing System (IPS) in the IJPS Era</i>			
DOCUMENT NO. NOAA-POES-IJPS/OSD-2002-0016R0UD0			
CHANGE PAGE HISTORY			
No.	Page Number(s)	Update Instructions (Insert / Delete / Replace)*	Reason for Change
0	Complete Document	Original baseline version of this document	As presented at the NOAA SRR and updated to reflect all Review Item Discrepancies from the SRR Review Board.
COMMENTS: This is the first publication of this document; as such, it comprises the DCN 0 baseline.			
NOTES:			
*EXAMPLES: An Insert change pages 6.2-6 through 6.2-9 following page 6.2-5 A Replace pages 3.4-1 through 3.4-10 with change pages 3.4-1 through 3.4-10b A Replace page 4.5-24 with change page 4.5-24; delete pages 4.5-25 through 4.5-30			

Version Description Record

DOCUMENT TITLE: Interface Requirements between the Command and Data Acquisition Station (CDAS), Satellite Operations Control Center (SOCC), and the Ingest and Preprocessing System (IPS) in the IJPS Era					
DOCUMENT NUMBER: Baseline: NOAA-POES-IJPS/OSD-2002-0016R0UD0			SYSTEM: POES IJPS		DOCUMENT BASELINE ISSUE DATE: November 8, 2002
DOCUMENT CHANGE HISTORY					
DCN No.	Revision/Update Nos.	Date	DCN No.	Revision/Update Nos.	Date
0	R0UD0	November 8, 2002			
NOTES:					

Preface

This document comprises the NOAA/NESDIS baseline publication of *Interface Requirements between the Command and Data Acquisition Station (CDAS), Satellite Operations Control Center (SOCC), and the Ingest and Preprocessing System (IPS) in the IJPS Era*. This document is Revision 0, DCN 0 (document number NOAA-POES-IJPS/OSD-2002-0016R0UD0).

This document identifies new interface requirements for the NOAA CDAS, SOCC, and IPS elements of the POES Ground Segment for Data the IJPS. The new functional requirements stated in this document provide the basis for further analysis and are documented in a detailed Interface Control Document between the affected elements.

Publication of this document closes Document Configuration Change Request (DocCCR) # DocCCR-POES-Other-2002-0009, entitled *Acceptance of IJPS Ground Segment CDAS and SOCC to IPS IRD*.

Future updates and revisions to this document will be produced and controlled by NOAA/NESDIS.

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Acronyms and Abbreviations

AD	Applicable Document
CDAS	Command and Data Acquisition Station
CE	Communications Element
CSU	CDAS/SOCC Upgrade
EPS	EUMETSTAT Polar System
ESA	European Space Agency
EUMETSAT	European Organisation for the Exploration of Meteorological Satellites
FCDAS	Fairbanks Command and Data Acquisition Station
GDS	Global Data Stream (only X-band data from Metop satellite)
IJPS	Initial Joint Polar-orbiting Operational Satellite System
IPS	Ingest and Preprocessing System
Metop	Meteorological Operational Satellite
MHRPT	Metop High Resolution Picture Transmission
NOAA	National Oceanic and Atmospheric Administration
PGS	POES Ground Segment
POES	Polar-orbiting Operational Environmental Satellite
SOCC	Satellite Operations Control Center
TBC	To be confirmed
TBD	To be determined
TBW	To be written
VCDU	Virtual Channel Data Units
WCDAS	Wallops CDAS

1.0 Introduction

The National Oceanic and Atmospheric Administration (NOAA) has entered into an agreement with the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) for participation in the Initial Joint Polar-orbiting Operational Satellite System (IJPS) (hereinafter referred to as the "IJPS Agreement"). In the IJPS Agreement, NOAA and EUMETSAT agree to procure and operate their Polar-orbiting satellites in a manner beneficial to both parties and the world's meteorological community.

The IJPS consists of two independent, but fully coordinated, polar satellite systems: the NOAA Polar-orbiting Operational Environmental Satellite (POES) system and the EUMETSAT Polar System (EPS). In support of the IJPS, NOAA satellites NOAA N and N' will be flown consecutively (one replacing the other) in a polar orbit with an afternoon (P.M.) equatorial crossing time. EUMETSAT, working with the European Space Agency (ESA), will develop the Meteorological Operational (Metop) series of satellites to be flown consecutively in a Polar orbit with a mid-morning (A.M.) equatorial crossing time. The Metop satellites comprise the space segment of the EPS. The AM and PM satellites will embark a set of jointly provided common instruments. In addition, instruments specific to each orbit will be provided by NOAA and EUMETSAT for their respective satellites. The IJPS Agreement also commits NOAA and EUMETSAT to support each other's operational satellites through their respective ground segments for commanding, receiving telemetry and global data, and exchanging data between the two Polar satellite systems. IJPS begins with the commissioning of the first Metop satellite to be launched.

POES is a long-standing operational satellite system. The POES Ground Segment (PGS) currently operates and generates meteorological products from POES satellites. Among other components, the PGS includes two Command and Data Acquisition Stations (CDAS), a Satellite Operations Control Center (SOCC), and an Ingest and Preprocessing System (IPS). The CDASs provide commanding access to the POES satellites and acquisition of POES telemetry and meteorological data. They are located in Wallops, Virginia (WCDAS) and Fairbanks, Alaska (FCDAS). The SOCC is the center of POES satellite operations and is responsible for command and control of the POES spacecraft and instruments. The IPS receives Level 0 environmental data and produces Level 1b products. In the IJPS era, additional data flows will be introduced between the CDAS/SOCC and IPS elements.

Until NOAA N becomes operational, pre-IJPS NOAA satellites will provide instrument data for the meteorological community. After the launch of NOAA N, residual POES satellites will still be operated by the PGS. Support functions to these non-IJPS satellites will continue into the IJPS timeframe.

1.1 Scope

This document defines new and modified interface requirements between the NOAA POES Ground Segment CDAS/SOCC “super” element and the IPS element that results from the introduction of new data streams and support requirements in the IJPS era. Existing interfaces between these elements that continue into the IJPS timeframe will not be addressed in this document.

1.2 Interface Overview

In the IJPS era, Metop data will flow through NOAA Polar Ground Segment and IJPS POES blind orbit data will be provided to the PGS by the EUMETSAT Ground Segment. Metop High Resolution Picture Transmission (MHRPT) data will be acquired by both PGS CDASs, processed and routed through the SOCC to the IPS. Metop Global Data Stream (GDS) data acquired by the FCDAS will be processed and routed through the SOCC to the IPS. When Metop GDS backlog tapes are provided by the EUMETSAT to the PGS, the SOCC will be responsible for providing selected Virtual Channel Data Units (VCDUs) from those tapes to the IPS. The SOCC is also responsible for routing IJPS POES blind orbit data provided to the PGS by the EUMETSAT Ground Segment to the IPS. When EUMETSAT provides blind orbit IJPS POES backlog tapes to the SOCC, the SOCC retrieves the global data and provides that to the IPS. The IPS and the SOCC exchange coordination data and the IPS provides the Metop ephemeris information required by the SOCC for IJPS operations.

1.3 Document Organization

Section 1 provides the background, purpose and document structure.

Section 2 lists the applicable and reference documentation.

Section 3 provides functional interface requirement statements.

Section 4 covers keywords and definitions.

Section 5 documents open issues.

Appendix A is a Requirements Matrix.

2.0 Applicable and Reference Documents

Table 2-1 presents a list of applicable documents (AD-#) from existing requirement and operations documents. The applicable documents form a part of this specification to the extent specified within.

Table 2-1. Applicable Documents

Doc #	Title	Reference Number	Issue	Date
AD-1	POES System Requirements for Initial Joint Polar-orbiting Operational Satellite System RDN-4	NOAA-POES-IJPS/OSD-2002-0004R0UD0	DCN 0	21 June 2002
AD-2	IJPS System Requirements for the Ingest and Preprocessing System (IPS)	NOAA-POES-IJPS/OSD-2002-0009R0UD0	DCN 0	20 Sep 2002

Reference documents (RD-#) in Table 1-2 provide additional useful information for implementation.

Table 2-2. Reference Documents

Doc #	Title	Reference Number	Issue	Date
RD-1	Ground Segment Command and Data Acquisition Station (CDAS) and Satellite Operations Control Center (SOCC) Requirements for IJPS	NOAA-POES-IJPS/OSD-2002-0010R0UD0	DCN 0	8 Nov 2002
RD-2	IJPS System Requirements for Communications Services	NOAA-POES-IJPS/OSD-2002-0006R0UD0	DCN 0	30 Oct 2002

3.0 Interface Requirements

Although actual physical interfaces between the SOCC and the IPS are the responsibility of the Communications Element (CE), the functional requirements are between the SOCC and IPS Elements and will be identified as such in this document. A single development will provide the upgrades to the POES Ground Segment CDASs and the SOCC needed to support IJPS. This development will be referred to as the CDAS/SOCC Upgrade (CSU). Some requirements apply to the CSU as a whole rather than just to the SOCC and will be identified accordingly.

Requirements are identified with unique Requirements IDs followed by paragraphs of text. Also associated with each requirement is a verification method. The format is as follows:

Requirements ID	Verification Method
Text Paragraph	

Requirement ID The requirement header is in the form “IF-XXX-YYY -a.b.c.d.>-<number>.”

XXX refers to the providing component, defined in Table 3.1.

YYY refers to the receiving component, defined in Table 3.1.

<a.b.c.d.> corresponds to the subsection in which the requirement is contained.

<number> is a sequential number.

Verification Method lists the method(s) selected for verification of the requirement. The list of verification methods is given in Table 3-2.

Text Paragraph is the requirement statement.

Table 3-1. Component Identifiers

Component Identifier	Definition
CSU	CDAS/SOCC Upgrade
SOC	Satellite Operations Control Center
IPS	Ingest and Preprocessing System

Table 3-2. Verification Methods

Verification Field	Definition
Test	Test is the exercise of hardware, software, or operations to measure quantitatively specified requirements.
Demo	Demonstration is the determination of properties and performance involving proof-by-doing.
Analysis	Analysis is an engineering assessment and/or mathematical process that may include computer modeling and/or simulation to determine compliance with specification requirements.

3.1 MHRPT Interface Requirements

IF-CSU-IPS-3.1-0010 Demo, Analysis
The CSU shall provide selected VCDUs extracted from MHRPT data to the IPS.

IF-CSU-IPS-3.1-0020 Demo, Analysis
MHRPT data shall be provided with quality flags appended. (TBD)

IF-CSU-IPS-3.1-0030 Test, Analysis
The CSU shall provide MHRPT data to the IPS within TBD of the completion of the acquisition by a CDAS of the frame containing that data.

IF-CSU-IPS-3.1-0040 Test, Analysis
98.4 % (measured over any 30-day period) of the MHRPT data acquired by the PGS shall be made available within timeliness requirements by the CSU to the IPS.

IF-CSU-IPS-3.1-0050 Analysis
The maximum downtime of the MHRPT acquisition chain from a CDAS to the IPS shall never exceed 360 minutes.

IF-CSU-IPS-3.1-0060 Demo, Analysis
The CSU shall provide the capability to provide MHRPT data from one Metop satellite to the IPS while simultaneously providing IJPS POES data to IPS.

IF-CSU-IPS-3.1-0070 Demo, Analysis
When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of MHRPT data from both Metop-1 and Metop - 2 satellites. (TBD)

3.2 Metop Global Data Stream Interface Requirements

IF-CSU-IPS-3.2-0010

Demo

The CSU shall provide selected GDS VCDUs (with appended time stamp and quality flag) acquired by the FCDAS to the IPS.

IF-SOC-IPS-3.2-0020

Test, Analysis

The SOCC shall provide blind orbit GDS data to the IPS within TBD of the receipt of that data at the SOCC.

IF-CSU-IPS-3.2-0030

Demo, Analysis

The CSU shall provide the capability to provide FCDAS-acquired GDS data from one Metop satellite to the IPS while simultaneously providing IJPS POES data to IPS.

IF-CSU-IPS-3.2-0040

Test, Analysis

99.4 % (measured over any 30-day period) of the GDS data acquired by the FCDAS shall be made available within timeliness requirements by the CSU to the IPS.

IF-CSU-IPS-3.2-0050

Analysis

The maximum downtime of the GDS acquisition chain from the FCDAS to the IPS shall never exceed 360 minutes.

IF-SOC-IPS-3.2-0060

Demo

The SOCC shall retrieve Metop GDS VCDUs from backlog GDS tapes provided by EUMETSAT and provide them to IPS.

IF-CSU-IPS-3.2-0070

Demo

The CSU shall provide PGS generated backlog GDS tapes to IPS upon request.

IF-SOC-IPS-3.2-0080

Test, Analysis

The SOCC shall provide backlog GDS data to the IPS within TBD of request.

IF-CSU-IPS-3.2-0090

Demo, Analysis

When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of FCDAS-acquired GDS data from both Metop-1 and Metop-2 satellites. (TBD)

3.3 IJPS POES Global Data Interface Requirements

IF-SOC-IPS-3.3-0010

Demo, Analysis

The SOCC shall provide blind orbit IJPS POES global data to IPS.

IF-SOC-IPS-3.3-0020

Demo, Analysis

The SOCC shall provide the capability to provide blind orbit IJPS POES global data from one IJPS POES satellite to the IPS while simultaneously providing FCDAS-acquired GDS data to IPS.

IF-SOC-IPS-3.3-0030

Test, Analysis

The SOCC shall provide blind orbit IJPS POES global data to the IPS within TBD of the receipt of that data at the Suitland Interface.

IF-SOC-IPS-3.3-0040

Test, Analysis

99.4 % (measured over any 30-day period) of the blind orbit IJPS POES global data received at the Suitland Interface shall be made available within timeliness requirements by the SOCC to the IPS.

IF-SOC-IPS-3.3-0050

Demo

The SOCC shall retrieve IJPS POES global data from backlog tapes provided by EUMETSAT and provide that data to IPS.

IF-SOC-IPS-3.3-0060

Test, Analysis

The SOCC shall provide blind orbit IJPS POES global backlog data to the IPS within TBD of request.

IF-CSU-IPS-3.3-0070

Demo, Analysis

When supporting IJPS POES split mission contingency operations the SOCC shall provide the capability to provide to the IPS blind orbit IJPS POES global data from both NOAA-N and NOAA-N'.

3.4 Coordination Data Interface Requirements

IF-IPS-SOC-3.4-0010

Demo

The IPS shall provide Metop ephemeris data to the SOCC.

IF-IPS-SOC-3.4-0020

Demo

The SOCC shall receive coordination data from IPS.

IF-SOC-IPS-3.4-0030

Demo

The SOCC shall provide coordination data to IPS.

4.0 Keywords with Definitions

Blind Orbit – Orbit that could not be acquired by the satellite nominal ground station, i.e., FCDAS and WCDAS for NOAA and EPS CDAS (located in Svalbard, a Norwegian Territory) for Metop. The reasons for not being able to acquire the data include: failure scenarios, non-visibility from the ground station, cross-support for satellite operations upon request for specific operations.

Communications Element (CE) – The CE provides the communications network infrastructure and connections between the Suitland and Darmstadt interfaces, and among the PGS elements.

Global Data – IJPS global data is Metop GDS data or IJPS POES global data. IJPS POES global data can be any of the following: Global Area Coverage (GAC), Stored TIROS Information Processor (STIP), or Stored AMSU Information Processor (SAIP). GAC is provided when available, but STIP or SAIP can be substituted when GAC is not available.

Split Mission – Data from two satellites is required to fulfill the mission of one satellite.

Suitland Interface – NOAA's single-point interface is located in Suitland, MD, which allows EPS to acquire IJPS satellite data and information, per mutual agreement.

TBC – The qualification, TBC (to be confirmed), associated with a statement or quantity indicates items that need to be further analyzed before a final decision. A requirement that is TBC is contractually a requirement.

TBD – The qualification, TBD (to be determined), associated with a statement or quantity indicates items that are unknown at this time and must be determined in the future. A requirement that is TBD may not eventually remain a requirement.

TBW – The qualification, TBW (to be written), indicates a document yet to be written.

5.0 Open Issues

5.1 TBC

None.

5.2 TBD

IF-CSU-IPS-3.1-0020 Demo, Analysis
MHRPT data shall be provided with quality flags appended. (TBD)

IF-CSU-IPS-3.1-0030 Test, Analysis
The CSU shall provide MHRPT data to the IPS within TBD of the completion of the acquisition by a CDAS of the frame containing that data.

IF-CSU-IPS-3.1-0070 Demo, Analysis
When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of MHRPT data from both Metop-1 and Metop-2 satellites. (TBD)

IF-SOC-IPS-3.2-0020 Test, Analysis
The SOCC shall provide blind orbit GDS data to the IPS within TBD of the receipt at the SOCC.

IF-SOC-IPS-3.2-0070 Test, Analysis
The SOCC shall provide backlog GDS data to the IPS within TBD of request.

IF-CSU-IPS-3.2-0090 Demo, Analysis
When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of FCDAS-acquired GDS data from both Metop-1 and Metop-2 satellites. (TBD)

IF-SOC-IPS-3.3-0030 Test, Analysis
The SOCC shall provide blind orbit IJPS POES global data to the IPS within TBD of the receipt at the Suitland Interface.

IF-SOC-IPS-3.3-0060 Test, Analysis
The SOCC shall provide IJPS POES global backlog data to the IPS within TBD of request.

5.3 TBW

None.

Appendix A. Requirements Matrix

Requirement ID	Requirement Statement	Source Requirement	Allocated Requirement	Verification Level & Method			Rationale / Comments
				Ele.	PGS	IJPS	
	3.1 Metop High Resolution Picture Transmission (MHRPT) Interface Requirements						
IF-CSU-IPS-3.1-0010	The CSU shall provide selected VCDUs extracted from MHRPT data to the IPS.	CSU-CDA-3.2.3-0060		D,A	D		
IF-CSU-IPS-3.1-0020	MHRPT data shall be provided with quality flags appended. (TBD)	CSU-CDA-3.2.3-0070		D,A	D		
IF-CSU-IPS-3.1-0030	The CSU shall provide MHRPT data to the IPS within TBD of the completion of the acquisition by a CDAS of the frame containing that data.	CSU-CDA-3.2.7-0150		T,A	T		
IF-CSU-IPS-3.1-0040	98.4 % (measured over any 30-day period) of the MHRPT data acquired by the PGS shall be made available within timeliness requirements by the CSU to the IPS.	CSU-CR-3.1.11-0090		T,A	T,A		
IF-CSU-IPS-3.1-0050	The maximum downtime of the MHRPT acquisition chain from a CDAS to the IPS shall never exceed 360 minutes.	CSU-CR-3.1.9-0080		A	A		
IF-CSU-IPS-3.1-0060	The CSU shall provide the capability to provide MHRPT data from one Metop satellite to the IPS while simultaneously providing IJPS POES data to IPS.	CSU-CDA-3.2.7-0020 CSU-CDA-3.2.7-0050		D,A	D		
IF-CSU-IPS-3.1-0070	When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of MHRPT data from both Metop-1 and Metop-2 satellites. (TBD)	NOAA requirement		D,A	D		
	3.2 Metop Global Data Stream Interface Requirements						
IF-CSU-IPS-3.2-0010	The CSU shall provide selected GDS VCDUs (with appended time stamp and quality flag) acquired by the FCDAS to the IPS.	CSU-CDA-3.2.3-0080		D	D		
IF-SOC-IPS-3.2.0020	The SOCC shall provide blind orbit GDS data to the IPS within TBD of the receipt of that data at the SOCC.	CSU-SOC-3.3.9-0190		T,A	T		

Requirement ID	Requirement Statement	Source Requirement	Allocated Requirement	Verification Level & Method			Rationale / Comments
				Ele.	PGS	IJPS	
IF-CSU-IPS-3.2-0030	The CSU shall provide the capability to provide FCDAS-acquired GDS data from one Metop satellite to the IPS while simultaneously providing IJPS POES data to IPS.	CSU-CDA-3.2.7-0020 CSU-CDA-3.2.7-0050		D,A	D		
IF-CSU-IPS-3.2-0040	99.4% (measured over any 30-day period) of the GDS data acquired by the FCDAS shall be made available within timeliness requirements by the CSU to the IPS.	CSU-CDA-3.2.3-0080 CSU-CDA-3.2.7-0130 CSU-SOC-3.3.8-0100		T,A	T,A		
IF-CSU-IPS-3.2-0050	The maximum downtime of the GDS acquisition chain from a CDA to the IPS shall never exceed 360 minutes.	NOAA requirement		A	A		
IF-SOC-IPS-3.2-0060	The SOCC shall retrieve Metop GDS VCDUs from backlog GDS tapes provided by EUMETSAT and provide them to IPS.	CSU-SOC-3.3.8-0180		D	D		
IF-CSU-IPS-3.2-0070	The CSU shall provide PGS generated backlog GDS tapes to IPS upon request.	NOAA requirement		D	D		
IF-CSU-IPS-3.2-0080	The SOCC shall provide backlog GDS data to the IPS within TBD of request.	NOAA requirement		T,A	T,A		
IF-CSU-IPS-3.2-0090	When supporting Metop split mission contingency operations, the CSU shall provide the capability to provide to the IPS selected subsets of FCDAS-acquired GDS data from both Metop-1 and Metop-2 satellites. (TBD)	NOAA requirement		D,A	D		
	3.3 IJPS POES Global Data Interface Requirements						
IF-SOC-IPS-3.3-0010	The SOCC shall provide blind orbit IJPS POES global data to IPS.	CSU-SOC-3.3.8-0150		D,A	D		
IF-SOC-IPS-3.3-0020	The SOCC shall provide the capability to provide blind orbit IJPS POES global data from one IJPS POES satellite to the IPS while simultaneously providing FCDAS-acquired GDS data to IPS.	NOAA requirement		D,A	D		
IF-SOC-IPS-3.3-0030	The SOCC shall provide blind orbit IJPS POES global data to the IPS within TBD of the receipt of that data at the Suitland Interface.	CSU-SOC-3.3.9-0200		T,A	T		

Requirement ID	Requirement Statement	Source Requirement	Allocated Requirement	Verification Level & Method			Rationale / Comments
				Ele.	PGS	IJPS	
IF-SOC-IPS-3.3-0040	99.4% (measured over any 30-day period) of the blind orbit IJPS POES global data received at the Suitland Interface shall be made available within timeliness requirements by the SOCC to the IPS.	CSU-SOC-3.3.8-0130 CSU-SOC-3.3.8-0140 CSU-SOC-3.3.9-0200		T,A	T,A		
IF-SOC-IPS-3.3-0050	The SOCC shall retrieve IJPS POES global data from backlog tapes provided by EUMETSAT and provide that data to IPS.	CSU-SOC-3.3.8-0170		D	D		
IF-SOC-IPS-3.3-0060	The SOCC shall provide blind orbit IJPS POES global backlog data to the IPS within TBD of request.	CSU-SOC-3.3.9-0200		T,A	T,A		
IF-SOC-IPS-3.3-0070	When supporting IJPS POES split mission contingency operations, the SOCC shall provide the capability to provide to the IPS blind orbit IJPS POES global data from both NOAA-N and NOAA- N'.	CSU-CR-3.1-0060		D,A	D		
	3.4 Coordination Data Interface Requirements						
IF-IPS-SOC-3.4-0010	The IPS shall provide Metop ephemeris data to the SOC.	CSU-SOC-3.3.8-0020		D	D		
IF-IPS-SOC-3.4-0020	The SOCC shall receive coordination data from IPS.	CSU-SOC-3.3.8-0080		D	D		
IF-SOC-IPS-3.4-0030	The SOCC shall provide coordination data to IPS.	CSU-SOC-3.3.8-0070		D	D		

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039	NOAA/SO14	Steve Schaffer	FB 4, Room 3306A	1
OSDPD				
297	NOAA/OSDPD	Helen Woods	FB 4, Room 1069	1
298	NOAA/OSDPD	Mike Matson	FB 4, Room 1069	1
307	NOAA/OSDPD	Alexander Kidd	PES, Suite 100	1
OSDPD/IPD				
189	NOAA/OSDPD/IPD	Michael Kane	FB 4, Room 0301	1
299	NOAA/OSDPD/IPD	Barbara Banks	FB 4, Room 0301	1
300	NOAA/OSDPD/IPD	Mac McCreary	FB 4, Room 2322	1
301	NOAA/OSDPD/IPD	Vincent Tabor	FB 4 Room 0312	1
302	NOAA/OSDPD/IPD	Cathy Nichols	FB 4, Room 0315	1
NOAA/Systems Contractors				
187	NOAA/OSDPD/CSC	Dave Morel	FB 4, Room 0323	1
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